

What is Claimed is:

1. A mobile communication system comprising:

2 a mobile terminal capable of designating a
3 communication quality in requesting communication;

4 a radio base station connected to said mobile
5 terminal through a radio channel; and

6 a radio network controller connected to said
7 radio base station to control the communication quality
8 between said mobile terminal and said radio base station,

9 wherein said radio network controller

10 comprises a communication request reception

11 determination unit for, upon receiving a communication

12 request which designates the communication quality from

13 said mobile terminal, determining whether the received

14 communication request is to be received, on the basis of

15 a communication quality provided to communication which

16 requests without communication quality.

2. A system according to claim 1, wherein

2 said radio network controller further

3 comprises a communication quality measurement unit for

4 measuring a communication quality Q provided to

5 communication which requests without communication

6 quality, and

7 said communication request reception

8 determination unit comprises

9 comparison means for, upon receiving the
10 communication request which designates the communication
11 quality, comparing the measured communication quality Q
12 output from said communication quality measurement unit
13 with a predetermined threshold value,

14 bandwidth setting means for re-setting an
15 allowable communication bandwidth on the basis of a
16 comparison result from said comparison means, and

17 determination means for determining whether
18 the communication request is to be received, on the
19 basis of a bandwidth required by the received
20 communication request and the allowable communication
21 bandwidth re-set by said bandwidth setting means.

3. A system according to claim 2, wherein
2 said communication request reception
3 determination unit further comprises inquiry means for,
4 upon receiving the communication request which
5 designates the communication quality, inquiring of said
6 communication quality measurement unit of the
7 communication quality Q provided to communication which
8 requests without communication quality, and
9 said communication quality measurement unit
10 measures the communication quality Q and outputs the
11 communication quality to said communication request
12 reception determination unit in response to the inquiry
13 from said inquiry means.

4. A system according to claim 2, wherein
2 when the measured communication quality Q is
3 higher than the first threshold value Q_H , said bandwidth
4 setting means increases the allowable communication
5 bandwidth by a first predetermined value to re-set a new
6 allowable communication bandwidth, and when the measured
7 communication quality Q is lower than the second
8 threshold value Q_L ($Q_L < Q_H$), said bandwidth setting
9 means decreases the allowable communication bandwidth by
10 a second predetermined value to re-set a new allowable
11 communication bandwidth, and
12 when the bandwidth required by the received
13 communication request falls within the re-set allowable
14 communication bandwidth, said determination means
15 permits to receive the communication request, and when
16 the bandwidth required by the received communication
17 request falls outside the re-set allowable communication
18 bandwidth, said determination means denies to receive
19 the communication request.

5. A system according to claim 4, wherein when
2 the measured communication quality Q has a value between
3 the first threshold value Q_H and the second threshold
4 value Q_L , said bandwidth setting means maintains the
5 current allowable communication bandwidth.

6. A system according to claim 4, wherein when
2 the newly set allowable communication bandwidth exceeds
3 a communication bandwidth of the radio channel, the
4 allowable communication bandwidth is set to the
5 communication bandwidth of the radio channel, and when
6 the newly set allowable communication bandwidth is lower
7 than a first predetermined value, the allowable
8 communication bandwidth is set to the first
9 predetermined value.